

Title (en)  
Flow rate measuring method and flow rate measuring device

Title (de)  
Durchflussmessverfahren und -vorrichtung

Title (fr)  
Procédé et dispositif de mesure du débit

Publication  
**EP 2090869 B1 20141001 (EN)**

Application  
**EP 09151576 A 20090128**

Priority  
JP 2008033445 A 20080214

Abstract (en)  
[origin: EP2090869A1] A flow-rate measuring method for measuring the flow rate of a fluid inside a tube (10) is provided. This method uses a thermal-marker generator (13) that heats the fluid flowing through the tube (10) from the outside thereof to generate a thermal marker in the fluid inside the tube (10) and a thermal-marker detector (5) disposed downstream of the thermal-marker generator (13), so as to measure the flow rate on the basis of the distance between the thermal-marker generator (13) and the thermal-marker detector (5), a time period between a point at which the thermal marker in the fluid inside the tube (10) is generated by the thermal-marker generator (13) and a point at which the thermal marker is detected by the thermal-marker detector (5), and the cross-sectional area of the tube (10). In this method, the thermal-marker generator (13) heats the fluid by a microwave heating technique, and microwaves are applied to the fluid by using a microstrip line (17).

IPC 8 full level  
**G01F 1/7084** (2022.01)

CPC (source: EP KR US)  
**G01B 11/00** (2013.01 - KR); **G01F 1/66** (2013.01 - KR); **G01F 1/688** (2013.01 - KR); **G01F 1/7084** (2013.01 - EP KR US)

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DE

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